

ABSTRACT OF THE DISCLOSURE

5 Porous hexagonal, cubic, lamellar, wormhole,
or cellular foam aluminosilicates, gallosilicates and
titanosilicates derived from protozeolitic seeds or
zeolite fragments using an organic porogen directing
agent are described. The porous aluminosilicates
optionally also can contain zeolite crystals depending
upon the aging of the protozeolitic seeds. The silicon
and aluminum, gallium or titanium centers in the
10 structures are stable so that the framework of the
structure does not collapse when heated in the presence
of water or water vapor (steam). The steam stable
compositions can be used as catalysts for hydrocarbon
conversions, including the fluidized bed catalytic
15 cracking and the hydrocracking of petroleum oils, and
other reactions of organic compounds.